

### **IN THE CLAIMS**

Please cancel claims 13 and 15-24.

Please amend the claims as follows.

1. (Previously Presented) An apparatus comprising:
  - at least one processor;
  - a memory coupled to the at least one processor;
  - a pause/resume mechanism residing in the memory and executed by the at least one processor, the pause/resume mechanism sending a pause message when a first operating system needs to be restarted to at least one other operating system that is using a shared resource that is also used by the first operating system, the pause/resume mechanism receiving a pause complete message from each other operating system to indicate each other operating system has completed pending accesses to the shared resource before restarting the first operating system, and sending a resume message to the at least one other operating system after the first operating system is restarted.
2. (Cancelled)
3. (Original) The apparatus of claim 1 wherein the pause/resume mechanism disconnects the first operating system from the second operating system before the first operating system is restarted.
4. (Original) The apparatus of claim 1 wherein the pause/resume mechanism reconnects the first operating system to the at least one other operating system after the first operating system is restarted.

5. (Original) The apparatus of claim 1 wherein the resume message indicates that the first operating system is ready to resume sharing the shared resource with the at least one other operating system.

6. (Previously Presented) A computer system comprising:

- at least one processor;

- a memory coupled to the at least one processor;

- a first operating system residing in the memory, the first operating system owning a shared resource;

- a second operating system residing in the memory, the second operating system using the shared resource; and

- a pause/resume mechanism residing in the memory, the pause/resume mechanism sending a pause message to the second operating system when the first operating system needs to be restarted, the pause/resume mechanism sending a resume message to the second operating system after the first operating system is restarted.

7. (Original) The computer system of claim 6 further comprising a plurality of operating systems that use the shared resource, wherein the pause/resume mechanism sends the pause message and the resume message to the plurality of operating systems.

8. (Original) The computer system of claim 6 wherein the pause/resume mechanism receives a pause complete message from the second operating system to indicate the second operating system has completed pending accesses to the shared resource.

9. (Previously Presented) The computer system of claim 6 wherein the pause/resume mechanism disconnects the first operating system from the second operating system before the first operating system is restarted.

10. (Original) The computer system of claim 6 wherein the pause/resume mechanism reconnects the first operating system and the second operating system after the first operating system is restarted.

11. (Original) The computer system of claim 6 wherein the resume message indicates that the first operating system is ready to resume sharing the shared resource with the second operating system.

12. (Previously Presented) A computer system comprising:

- at least one processor;

- a memory coupled to the at least one processor;

- a first operating system residing in the memory, the first operating system owning a shared resource;

- a second operating system residing in the memory, the second operating system using the shared resource;

- the first operating system comprising a pause/resume mechanism that sends a pause message to the second operating system when the first operating system needs to be restarted, that receives a pause complete message from the second operating system to indicate the second operating system has completed pending accesses to the shared resource, that sends a disconnect message to the second operating system before the first operating system is restarted, that sends a connect message to the second operating system after the first operating system is restarted to inform the second operating system that the first operating system has been restarted, and that sends a resume message to the second operating system after the first operating system is restarted to indicate to the second operating system that the first operating system is ready to resume sharing the shared resource with the second operating system.

13-24 (Cancelled)

25. (Previously Presented) A computer readable program product comprising:

(A) a pause/resume mechanism that sends a pause message when a first operating system needs to be restarted to at least one other operating system that is using a shared resource that is also used by the first operating system, the pause/resume mechanism receiving a pause complete message from each other operating system to indicate each other operating system has completed pending accesses to the shared resource before restarting the first operating system, and sending a resume message to the at least one other operating system after the first operating system is restarted; and

(B) recordable media bearing the pause/resume mechanism.

26-28 (Cancelled)

29. (Original) The program product of claim 25 wherein the pause/resume mechanism disconnects the first operating system from the at least one other operating system before the first operating system is restarted.

30. (Original) The program product of claim 25 wherein the pause/resume mechanism reconnects the first operating system to the at least one other operating system after the first operating system is restarted.

31. (Original) The program product of claim 25 wherein the resume message indicates that the first operating system is ready to resume sharing the shared resource with the at least one other operating system.

32. (Currently Amended) A computer readable program product comprising:

(A) a pause/resume mechanism that sends a pause message to a second operating system when a first operating system needs to be restarted and that sends a resume message to the second operating system after the first operating system is restarted; and

(B) recordable media bearing the pause/resume mechanism.

33-34 (Cancelled)

35. (Original) The program product of claim 32 wherein a plurality of operating systems use the shared resource, wherein the pause/resume mechanism sends the pause message and the resume message to the plurality of operating systems.

36. (Original) The program product of claim 32 wherein the pause/resume mechanism receives a pause complete message from the second operating system to indicate the second operating system has completed pending accesses to the shared resource.

37. (Original) The program product of claim 32 wherein the pause/resume mechanism disconnects the first operating system from the second operating system before the first operating system is restarted.

38. (Original) The program product of claim 32 wherein the pause/resume mechanism reconnects the first operating system to the second operating system after the first operating system is restarted.

39. (Original) The program product of claim 32 wherein the resume message indicates that the first operating system is ready to resume sharing the shared resource with the second operating system.

40. (Currently Amended) A computer readable program product comprising:

(A) a pause/resume mechanism that sends a pause message to a second operating system when a first operating system needs to be restarted, that receives a pause complete message from the second operating system to indicate the second operating system has completed pending accesses to a shared resource, that sends a disconnect message to the second operating system before the first operating system is restarted, that sends a connect message to the second operating system after the first operating system is restarted to inform the second operating system that the first operating system has been restarted, and that sends a resume message to the second operating system after the first operating system is restarted to indicate to the second operating system that the first operating system is ready to resume sharing the shared resource with the second operating system; and

(B) recordable media bearing the pause/resume mechanism.

41-42 (Cancelled)

43. (New) A computer system comprising:

- at least one processor;

- a memory coupled to the at least one processor;

- a first operating system residing in the memory, the first operating system owning a shared resource;

- a second operating system residing in the memory, the second operating system using the shared resource; and

- a pause/resume mechanism residing in the memory, the pause/resume mechanism sending a pause message to the second operating system when the first operating system needs to be restarted, the pause/resume mechanism receiving a pause complete message from the second operating system to indicate the second operating system has completed pending accesses to the shared resource, the pause/resume mechanism disconnecting the first operating system from the second operating system before the first operating system is restarted, the pause/resume mechanism reconnecting the first operating system and the second operating system after the first operating system is restarted, the pause/resume mechanism sending a resume message to the second operating system after the first operating system is restarted wherein the resume message indicates that the first operating system is ready to resume sharing the shared resource with the second operating system.



44. (New) A computer readable program product comprising:

(A) a pause/resume mechanism that sends a pause message to the second operating system when the first operating system needs to be restarted, the pause/resume mechanism receiving a pause complete message from the second operating system to indicate the second operating system has completed pending accesses to the shared resource, the pause/resume mechanism disconnecting the first operating system from the second operating system before the first operating system is restarted, the pause/resume mechanism reconnecting the first operating system and the second operating system after the first operating system is restarted, the pause/resume mechanism sending a resume message to the second operating system after the first operating system is restarted wherein the resume message indicates that the first operating system is ready to resume sharing the shared resource with the second operating system; and

(B) recordable media bearing the pause/resume mechanism.